

591508035Seqlist.txt  
SEQUENCE LISTING

<110> KURODA, Masaharu

<120> Plant with Reduced Protein Content in Seed, Method of Constructing the Same and Method of Using the Same

<130> 59150-8035

<140> US 10/539,992

<151> 2003-12-09

<150> PCT/JP2003/015753

<151> 2003-12-09

<150> JP 2002-369700

<151> 2002-12-20

<160> 119

<170> PatentIn version 3.3

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<213> Oryza sativa

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 Leu Gln Ser His Leu Leu Leu Gln Gln Val Leu Ser Pro Cys Ser  
 35 40 45  
 Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp Gln  
 50 55 60  
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Cys  
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 Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln Ala Ile  
 85 90 95  
 Ser Ser Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln Gln Val Gly  
 100 105 110  
 Val Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala  
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 35 40 45  
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln  
 50 55 60  
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 65 70 75 80  
 Gly Gly Gln Gln Ser Arg Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile  
 85 90 95  
 Ala Tyr Glu Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg  
 100 105 110  
 Asn Gln Ala Gln Ala Gln Ala Leu Ala Phe Asn Val Pro Ser Arg  
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 50 55 60  
 Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala  
 65 70 75 80  
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 Ile Ala Gln Gln Leu Gln Leu Gln Phe Gly Asp Leu Tyr Phe Asp  
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 Cys Ser Thr Val Ala Thr Pro Phe Phe Gln Ser Pro Val Phe Gln Leu  
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 Val Gln Gln Leu Gln Leu Gln Gln Phe Ser Gly Val Tyr Phe Asp Gln  
 100 105 110  
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Cys	Gln	Gln	Leu	Arg	Leu	Val	Ala	Gln	Gln	Ser	His	Tyr	Gln	Ala	Ile
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		35					40					45				
Glu	Phe	Val	Arg	Gln	Gln	Tyr	Ser	Ile	Val	Ala	Thr	Pro	Phe	Trp	Gln	
	50					55					60					
Pro	Ala	Thr	Phe	Gln	Leu	Ile	Asn	Asn	Gln	Val	Met	Gln	Gln	Gln	Cys	
65					70					75					80	
Cys	Gln	Gln	Leu	Arg	Leu	Val	Ala	Gln	Gln	Ser	His	Tyr	Gln	Ala	Ile	
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Ser	Ile	Val	Gln	Ala	Ile	Val	Gln	Gln	Leu	Gln	Leu	Gln	Gln	Phe	Ser	
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591508035Seq1ist.txt

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Val Gln Ser Pro Leu Leu Leu Gln Gln Val Leu Ser Pro Tyr Asn  
35 40 45  
Glu Phe Val Arg Gln Gln Tyr Ser Ile Ala Ala Ser Thr Phe Leu Gln  
50 55 60  
Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Leu Gln Gln Leu Arg  
65 70 75 80  
Leu Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Val Val Gln Ala  
85 90 95  
Ile Ala His Gln Leu His Leu Gln Gln Phe Gly Asn Leu Tyr Ile Asp  
100 105 110  
Arg Asn Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Leu Pro Ser  
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35      40      45
Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln
50      55      60
Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala
65      70      75      80
Leu Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala
85      90      95
Ile Ala Gln Gln Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp
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Arg Asn Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser
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tcaaagttat aggcaatatc agctgcagtc gcctgtcctg ctacagcaac aggtgcttag 180
cccatataat gagttcgtaa gcagcagtat ggcatacggc aacccttctt tgcaatcagc 240
tgcgtttcaa ctgagaaaca accaagtctg gcaacagctc gcgctggtgg cgcaacaatc 300
tcactatcag gacattaaca ttgttcaggc catagcgagc cagctacaac tccagcagtt 360
tggtgatctc tactttgatc ggaatctggc tcaagctcaa gctctgttgg cttttaacgt 420
gccacctaaa tatggtatct accctaggta ctatggtgca cccagtacca ttaccaccct 480
tggcggtgtc ttgtaatgaa tttaacagta taatggtcgg aagttaaaaa taagctcaga 540
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## 591508035Seqlist.txt

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 <212> PRT  
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<220>  
 <223> 13kD prolamine

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 20 25 30  
 Gln Ser Pro Val Leu Leu Gln Gln Val Leu Ser Pro Tyr Asn Glu  
 35 40 45  
 Phe Val Ser Ser Ser Met Ala Tyr Gly Asn Pro Phe Leu Gln Ser Ala  
 50 55 60  
 Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala Leu Val  
 65 70 75 80  
 Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile Ala  
 85 90 95  
 Gln Gln Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg Asn  
 100 105 110  
 Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Pro Lys Tyr  
 115 120 125  
 Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr Leu  
 130 135 140  
 Gly Gly Val Leu  
 145

<210> 21  
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<220>  
 <223> 13kD prolamine

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<220>  
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 <222> (109)..(109)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (207)..(207)  
 <223> n is a, c, g, or t

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 gccgcgcccc atcccgggtgc gcgacccatc gttcacacag ttcaagcatt atacagaaaa 180  
 atagaaagat ctagtgtccc gcagcanatg aagatcattt tcgtctttgc tctccttgct 240  
 attgctgcat gcaggcctct gccgagtttg atgttttttag gtcaaagtta taggcaatat 300  
 cagctgcagt cgctgtcct gctacagcaa caggtgctta gcccatataa tgagttcgta 360  
 aggcagcagt atggcatagc ggcaagcccc ttcttgcaat cagctgcatt tcaactgaga 420  
 aataaccaag tctggcaaca tcaggctggt ggccaacaat ctcgctatca ggacattaac 480  
 attgttcagg ccatagcgta cgagctacaa ctccagcaat ttggtgatct ctactttgat 540

## 591508035Seq1ist.txt

cggaatcagg	ctcaagctca	agctctattg	gctttttaacg	tgccatctag	atatgggtatc	600
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gttttaacag	tatagtgggt	cggaagttaa	aaataagctc	agatatcatc	atatgtgaca	720
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<210> 22  
 <211> 149  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> 13kD prolamine

<400> 22  
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 20 25 30  
 Leu Gln Ser Pro Val Leu Leu Gln Gln Gln Val Leu Ser Pro Tyr Asn  
 35 40 45  
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln  
 50 55 60  
 Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln His Gln Ala  
 65 70 75 80  
 Gly Gly Gln Gln Ser Arg Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile  
 85 90 95  
 Ala Tyr Glu Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg  
 100 105 110  
 Asn Gln Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg  
 115 120 125  
 Tyr Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr  
 130 135 140  
 Leu Gly Gly Val Leu  
 145

<210> 23  
 <211> 609  
 <212> DNA  
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<220>  
 <223> 13kD prolamine

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 aatattaggc aatatcaggt gcagtcgcct ctcttgctac agcaacaggt gcttagccta 180  
 tataatgagt tcgtaaggca gcagtatagc attgcggcaa gccccttctt gcaatcagct 240  
 gtgtttcaac tgagaaacaa ccaagtcttg caacagctca ggctggtggc gcaacaatct 300  
 cactaccagg acattaacgt tgtccaggcc atagcgcagc agctacacct ccagcagttt 360  
 ggcgatctct acattgaccg gaatctggct caagcgcaac gactggtggc ttttaacttg 420  
 ccatctacat atggtatcta ccctaggtac tatagagcac cgggtagtat taccaccctt 480  
 ggcggtgtct tgtactgaat tttcacaata ttgtagttcg gaagtgaata tataagcctc 540  
 aggtatcatc gtatgtgaca tgtgaaactt aaggtgatat aaatagaaat aaaattatct 600  
 ttcatattt 609

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 <211> 150  
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 <213> Oryza sativa

<220>  
 <223> 13kD prolamine

## 591508035Seqlist.txt

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 20 25 30  
 Gln Ser Pro Leu Leu Leu Gln Gln Val Leu Ser Leu Tyr Asn Glu  
 35 40 45  
 Phe Val Arg Gln Gln Tyr Ser Ile Ala Ala Ser Pro Phe Leu Gln Ser  
 50 55 60  
 Ala Val Phe Gln Leu Arg Asn Asn Gln Val Leu Gln Gln Leu Arg Leu  
 65 70 75 80  
 Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Val Val Gln Ala Ile  
 85 90 95  
 Ala Gln Gln Leu His Leu Gln Gln Phe Gly Asp Leu Tyr Ile Asp Arg  
 100 105 110  
 Asn Leu Ala Gln Ala Gln Arg Leu Leu Ala Phe Asn Leu Pro Ser Thr  
 115 120 125  
 Tyr Gly Ile Tyr Pro Arg Tyr Tyr Arg Ala Pro Gly Ser Ile Thr Thr  
 130 135 140  
 Leu Gly Gly Val Leu Tyr  
 145 150

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 <211> 596  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 13kd prolamine

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 atatcagctg cagtcgcctg tcctgctaca gcaacatgtg cttagcccat ataatgagtt 180  
 cgtaaggcag cagtatggca tagcggcaag ccccttcttg caatcagctg cgtttcaact 240  
 gagaaacaac caagtctggc aacagctcgc gctggtggcg caacaatctc actatcagga 300  
 cattaacatt gttcaggcca tagcgcagca gctacaactc cagcagtttg gtgatctcta 360  
 ctttgatcgg aatctggctc aagctcaagc tctgttggct tttaacgtgc catctagata 420  
 tggatctac cctaggctact atggtgcacc cagtaccatt accacccttg gcggtgtctt 480  
 gtaatgagtt ttaacagtat agtggttcgg aagataaaaa taagctcaga tatcatcata 540  
 tgtgacatgt gaaactttgg gtgatataaa tagaaaaaaa gttgtctttc atattt 596

<210> 26  
 <211> 149  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> 13kd prolamine

<400> 26  
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 20 25 30  
 Gln Ser Pro Val Leu Leu Gln Gln His Val Leu Ser Pro Tyr Asn Glu  
 35 40 45  
 Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln Ser  
 50 55 60  
 Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala Leu  
 65 70 75 80  
 Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile

## 591508035Seqlist.txt

85 90 95  
 Ala Gln Gln Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg  
 100 105 110  
 Asn Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg  
 115 120 125  
 Tyr Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr  
 130 135 140  
 Leu Gly Gly Val Leu  
 145

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 <211> 285  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 13kD prolamine

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 ttgataaac aaccaagtca tgcagcagca gttttgccaa cagctcaggc tggtagcaca 120  
 acattctcac taccaggcca ttagtattgt tcaagcgatt gtgcaacagc tacaactgca 180  
 gcattttagt ggtgtctact ttgatcagac tcaagctcaa gcccaaactt ttttgacctt 240  
 caactttccc atccatatgt ggtatctacc ttaacttact attgt 285

<210> 28  
 <211> 94  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> 13kD prolamine

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 1 5 10 15  
 Ala Thr Phe His Leu Ile Asn Asn Gln Val Met Gln Gln Gln Phe Cys  
 20 25 30  
 Gln Gln Leu Arg Leu Val Ala Gln His Ser His Tyr Gln Ala Ile Ser  
 35 40 45  
 Ile Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln His Phe Ser Gly  
 50 55 60  
 Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Thr Phe Leu Thr Phe  
 65 70 75 80  
 Asn Phe Pro Ser Ile Cys Gly Ile Tyr Leu Asn Leu Leu Leu  
 85 90

<210> 29  
 <211> 1836  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 13kD prolamine

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 taacaatcta gaattagatg tgctatctaa acacattgta gtaggtaatg tgtcatctaa 180  
 tcttagatat aatctaaaac ggaaggtgaa acggagggag tacctacata gtaatggcat 240  
 gcctatgttg cttaatttga cccgtgcagc tgagtatatg tgatggagac aaaagttact 300  
 ttcatgatgg caccaaagga gatttggttg ggtgcctaag agaacatcga tccaaatgac 360  
 acgacacact tagattctaa taggacatcc aagcaaaaca acacttagat cctaatagga 420

catccaagca	aaactaacac	tctagagcaa	ccgataagga	attgaaaaag	tttgtccatc	480
attcttgaca	agaggtagtg	tacaaaaaaa	atatttagtt	gagctctcgc	tcactacgca	540
tcacagaagt	ataacctaga	tataattaat	tcagtataga	agcaaaaatt	cagcagcaac	600
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agatagttta	ctgtaaacaa	aatggataat	aaacctgatg	tttcaacaaa	actagaggaa	720
ctctgtaaat	tgtccagggt	catccctaga	agttgggttc	tccttacggg	aggagggagt	780
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taaatagaca	agcccaatga	aaacctctct	catcgctttc	acagttcaag	cattatacac	1020
aaaagaagat	ctagtgtccc	gcagcaatga	agatcatttt	ccgtctttgc	tctccttgct	1080
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agctacagtc	gcctctccta	caacaacaac	aggtgcttag	cccatataat	gacttcgtaa	1200
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gagttttaac	agtatagtgg	ttcgggaagt	aaaaataagc	tcataatatta	tcataatgtga	1560
catgtgaaat	ttgggggtgaa	ataaatcgaa	ataaagttgt	ctttcatatt	taaataccat	1620
gcctctataa	ggatataatcc	tagtacattg	tcgtaactaa	ttaccatcat	cggtactcta	1680
caattttact	gtgttcttacc	atttcgattcc	agactacttt	gtttttaaga	tataaaatgga	1740
cgctataaag	gatgtccgtc	ctttcattcc	aataagaaca	atgtaacatc	ctgaaaatgt	1800
gtcattttct	aatcctgcat	catgccgact	cttatg			1836

<220>  
<223> 13kD prolamine

<220>  
<223> 16kD prolamine

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## 591508035Seq1ist.txt

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ctccatgtgt	ggagtctacc	ctaggtactg	cagcactcca	tgcaaagtgt	ctactgggtca	480
ttgctggctt	tggtagtgtg	taccatcata	tatatatagt	tggaataata	aagtgtcaca	540
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atgaaaatta	taacaaaaa	aa				622

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 <211> 149  
 <212> PRT  
 <213> rice

<220>  
 <223> 16kD prolamine

<400> 32  
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 20 25 30  
 Pro Phe Met Gln Pro Ile Met Asn Pro Cys Asn Glu Phe Val Arg Gln  
 35 40 45  
 Gln Cys Ser Pro Met Ser Leu Pro Trp Lys Gln Ser Arg Arg Leu Gln  
 50 55 60  
 Leu Ser Ser Cys Gln Val Met Arg Gln Gln Cys Gln Gln Met Arg  
 65 70 75 80  
 Leu Met Ala Gln Gln Tyr His Cys Gln Ala Ile Cys Thr Met Val Gln  
 85 90 95  
 Ser Ile Met Gln Gln Val Gln Phe Asp Ala Gly Phe Val Gly Glu Pro  
 100 105 110  
 Gln Ala Gln Ala Gln Ala Gln Val Ala Leu Asn Leu Pro Ser Met Cys  
 115 120 125  
 Gly Val Tyr Pro Arg Tyr Cys Ser Thr Pro Cys Lys Val Ala Thr Gly  
 130 135 140  
 His Cys Gly Ser Trp  
 145

<210> 33  
 <211> 562  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 10kD prolamine

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caatcaccac	tatgcagtat	ttcccaccaa	cattagccat	gggcacatg	gatccgtgta	180
ggcagtacat	gatgcaaacg	ttgggcatgg	gtagctccac	agccatgttc	atgtcgcagc	240
caatggcgct	cctgcagcag	caatgttgca	tgcagctaca	aggcatgatg	cctcagtgcc	300
actgtggcac	cagttgccag	atgatgcaga	gcatgcaaca	agttatttgt	gctggactcg	360
ggcagcagca	gatgatgaag	atggcgatgc	agatgccata	catgtgcaac	atggcccctg	420
tcaacttcca	actctcttcc	tgtggttgtt	gttgatcaaa	cgttggttac	atgtactcta	480
gtaataaggt	gttgcatact	atcgtgtgca	aacactagaa	ataagaacca	ttgaataaaa	540
tatcaatcat	tttcagactt	gc				562

<210> 34  
 <211> 134  
 <212> PRT  
 <213> Oryza sativa

<220>

## 591508035Seqlist.txt

&lt;223&gt; 10kd prolamine

&lt;400&gt; 34

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1      5      10      15
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      20      25      30
Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys Arg Gln Tyr Met Met
      35      40      45
Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met Phe Met Ser Gln Pro
      50      55      60
Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln Leu Gln Gly Met Met
65      70      75      80
Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met Met Gln Ser Met Gln
      85      90      95
Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln Met Met Lys Met Ala
      100      105      110
Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro Val Asn Phe Gln Leu
      115      120      125
Ser Ser Cys Gly Cys Cys
130

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&lt;210&gt; 35

&lt;211&gt; 332

&lt;212&gt; DNA

&lt;213&gt; Oryza rufipogon

&lt;220&gt;

&lt;223&gt; 10kd prolamine

&lt;400&gt; 35

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attagccatg ggcacccatgg atccgtgtag gcagtacatg atgcaaacgt tgggcatggg      120
tagctccaca gccatgttca tgtcgcagcc aatggcgctc ctgcagcagc aatgtttgat      180
gcagctacaa ggcattgatgc ctgagtgcga ctgtggcacc agttgccaga tgatgcagag      240
catgcaacaa gttattttgtg ctggactcgg gcagcagcag atgatgaaga tggcgatgca      300
gatgccatac atgtgcaaca tggcccctgt ca                                332

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&lt;210&gt; 36

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Oryza rufipogon

&lt;220&gt;

&lt;223&gt; 10kd prolamine

&lt;400&gt; 36

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Ile Ala Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr Met Gln Tyr
1      5      10      15
Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys Arg Gln Tyr
      20      25      30
Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met Phe Met Ser
      35      40      45
Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln Leu Gln Gly
      50      55      60
Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met Met Gln Ser
65      70      75      80
Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln Met Met Lys
      85      90      95
Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro Val
      100      105      110

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&lt;210&gt; 37

591508035Seqlist.txt

<211> 349  
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<213> Oryza longistaminata

<220>  
<223> 10kD prolamine

<220>  
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<222> (18)..(19)  
<223> n is a, c, g, or t

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aaacgttggg catgggtagc tccacaacca tgttcattgt gcagccaatg gcgctcctgc 180  
agcagcaatg ttgcatgcag ctacaaggca tgatgcctca gtgccactgt ggcaccagtt 240  
gccagatgat gcagagcatg caacaagttg tttgtgctgg actcgggcag cagcagatga 300  
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<211> 116  
<212> PRT  
<213> Oryza longistaminata

<220>  
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<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> Xaa can be any naturally occurring amino acid

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20 25 30  
Pro Cys Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr  
35 40 45  
Thr Met Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys  
50 55 60  
Met Gln Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys  
65 70 75 80  
Gln Met Met Gln Ser Met Gln Gln Val Val Cys Ala Gly Leu Gly Gln  
85 90 95  
Gln Gln Met Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn  
100 105 110  
Met Ala Pro Val  
115

<210> 39  
<211> 343  
<212> DNA  
<213> Oryza rufipogon

<220>  
<223> 10kD prolamine

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ttcccaccaa cattagccat gggcaccatg gatccgtgta ggcagtacat gatgcaaagc 120  
ttgggcatgg gtagctccac agccatgttc atgtcgcagc caatggcgct cctgcagcag 180



## 591508035Seq1ist.txt

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 atgatgcaga gcatgcaaca agttatttgt gctggactcg ggcagcagca gatgatgaag 300  
 atggcgatgc agatgccata catgtgcaac atggcccctg tca 343

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 <212> PRT  
 <213> Oryza rufipogon

<220>  
 <223> 10kD prolamine

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 Cys Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala  
 35 40 45  
 Met Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met  
 50 55 60  
 Gln Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln  
 65 70 75 80  
 Met Met Gln Ser Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln  
 85 90 95  
 Gln Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala  
 100 105 110  
 Pro

<210> 41  
 <211> 339  
 <212> DNA  
 <213> Oryza rufipogon

<220>  
 <223> 10kD prolamine

<400> 41  
 ttgtccttaa ttgctctttc tgcaagtgcc actactgcaa tcaccactat gcagtatttc 60  
 ccaccaacat tagccatggg caccatggat ccgtgtaggc agtacatgat gcaaacgttg 120  
 ggcattgggta gctccacagc catgttcatg tcgcagccaa tggcgctcct gcagcagcaa 180  
 tgttgcatgc agctacaagg catgatgcct cagtgccact gtggcaccag ttgccagatg 240  
 atgcagagca tgcaacaagt tatttgtgct ggactcgggc agcagcagat gatgaagatg 300  
 gcgatgcaga tgccatacat gtgcaacatg gccctgtgc 339

<210> 42  
 <211> 113  
 <212> PRT  
 <213> Oryza rufipogon

<220>  
 <223> 10kD prolamine

<400> 42  
 Phe Ala Leu Ile Ala Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr  
 1 5 10 15  
 Met Gln Tyr Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys  
 20 25 30  
 Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met  
 35 40 45  
 Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln  
 50 55 60  
 Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met

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65 Met Gln Ser Met Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln 80  
 70 75 80  
 85 90 95  
 Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro  
 100 105 110  
 Val

<210> 43  
 <211> 343  
 <212> DNA  
 <213> Oryza rufipogon

<220>  
 <223> 10kD prolamine

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> n is a, c, g, or t

<400> 43  
 ccctgtttgc ctttaattgnt ctttctgcaa gtgccactac tgcaatcacc actatgcagt 60  
 atttcccacc aacattagcc atgggcacca tggatccgtg taggcagtag atgatgcaaa 120  
 cgttgggcat gggtagctcc acagccatgt tcatgtcgca gccaatggcg ctcctgcagc 180  
 agcaatgttg catgcagcta caaggcatga tgcctcagtg ccactgtggc accagttgcc 240  
 agatgatgca gagcatgcaa caagttatit gtgctggact cgggcagcag cagatgatga 300  
 agatggcgat gcagatgcca tacatgtgca acatggcccc tgt 343

<210> 44  
 <211> 114  
 <212> PRT  
 <213> Oryza rufipogon

<220>  
 <223> 10kD prolamine

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> Xaa can be any naturally occurring amino acid

<400> 44  
 Leu Phe Ala Leu Ile Xaa Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr  
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 Thr Met Gln Tyr Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro  
 20 25 30  
 Cys Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala  
 35 40 45  
 Met Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met  
 50 55 60  
 Gln Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln  
 65 70 75 80  
 Met Met Gln Ser Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln  
 85 90 95  
 Gln Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala  
 100 105 110  
 Pro Val

<210> 45  
 <211> 533  
 <212> DNA  
 <213> Oryza sativa

## 591508035Seqlist.txt

&lt;220&gt;

&lt;223&gt; 10kD prolamine

&lt;400&gt; 45

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gccactactg	caatcaccac	tatgcagtat	ttcccaccaa	cattagccat	gggcaccatg	120
gatccgtgta	ggcagtacat	gatgcaaacg	ttgggcatgg	gtagctccac	agccatgttc	180
atgtcgcagc	caatggcgct	cctgctgcag	caatgttgca	tcagctaca	aggcatgatg	240
cctcagtgcc	actgtggcac	cagttgccag	atgatgcaga	gcatgcaaca	agttatttgt	300
gctggactcg	ggcagcagca	gatgatgaag	atggcgatgc	agatgccata	catgtgcaac	360
atggcccctg	tcaacttcca	actctcttcc	tgtggttgtt	gttgatgaaa	cgttggttac	420
atgtactcta	gtaataaggt	gttgcatact	atcgtgtgca	aacactagaa	ataagtacca	480
ttgaataaaa	tatcaaacat	tttcagactt	gcaaaaaaaaa	aaaaaaaaaa	aaa	533

&lt;210&gt; 46

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Oryza sativa

&lt;220&gt;

&lt;223&gt; 10kD prolamine

&lt;400&gt; 46

Met	Ala	Ala	Tyr	Thr	Ser	Lys	Ile	Phe	Ala	Leu	Phe	Ala	Leu	Ile	Ala
1				5				10						15	
Leu	Ser	Ala	Ser	Ala	Thr	Thr	Ala	Ile	Thr	Thr	Met	Gln	Tyr	Phe	Pro
			20					25					30		
Pro	Thr	Leu	Ala	Met	Gly	Thr	Met	Asp	Pro	Cys	Arg	Gln	Tyr	Met	Met
		35					40					45			
Gln	Thr	Leu	Gly	Met	Gly	Ser	Ser	Thr	Ala	Met	Phe	Met	Ser	Gln	Pro
	50					55					60				
Met	Ala	Leu	Leu	Leu	Gln	Cys	Cys	Met	Gln	Leu	Gln	Gly	Met	Met	
65					70				75					80	
Pro	Gln	Cys	His	Cys	Gly	Thr	Ser	Cys	Gln	Met	Met	Gln	Ser	Met	Gln
			85						90					95	
Gln	Val	Ile	Cys	Ala	Gly	Leu	Gly	Gln	Gln	Gln	Met	Met	Lys	Met	Ala
			100					105					110		
Met	Gln	Met	Pro	Tyr	Met	Cys	Asn	Met	Ala	Pro	Val	Asn	Phe	Gln	Leu
		115					120					125			
Ser	Ser	Cys	Gly	Cys	Cys										
		130													

&lt;210&gt; 47

&lt;211&gt; 940

&lt;212&gt; DNA

&lt;213&gt; rice

&lt;220&gt;

&lt;223&gt; 10kDa prolamine promoter

&lt;400&gt; 47

aatttagatc	tatacatccg	ttggtacatc	tctactactc	tagtactaaa	aacatgagat	60
ctgaacatgg	ctgcataggt	tctccatccc	aattcaccct	gcagtgatcg	ctgcactgga	120
taattataat	atcagttaaa	attgaaaata	atgcaacttc	atacttgcat	ggtgtcagta	180
gtgcctgcct	aagaaatgtg	tcttgtcata	atatgattac	atgaaatatg	tttacttcct	240
tcgtttctct	ttatttgtaa	gataaagaac	tagatatgtg	gaaagtagga	tagcaaagag	300
tatggccaaa	ctctaattct	tgcttttatt	tttgggatgg	acccaaaatt	tgtttctcct	360
ttactttctt	ccctttacaa	caatgttctt	tactttccaa	tcttattaac	aaaactccaa	420
atacatgcca	aactgcatat	gtatgtatgc	tattaaggca	catttacaaa	gctccaagtt	480
tacctactca	atcattcaca	tatggcgatg	actcaaactc	ttaattgtta	tctgtgtaag	540
ctgtgacttg	tgtaacacat	tctacaagtc	ccatacgaat	tctgttcaca	aaagtttctt	600
tgtccagctc	ataatttaca	aaactgcaaa	atgccaaagc	aatctggcac	aaccttatca	660
tcatattttc	tttccacgca	ttaaagcact	ggcagaatta	tctttgtgta	gatattccaa	720

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aagtattggt	tgaataaatg	tccaaataaa	ttccatgcct	catgatttcc	agcttatgtg	780
gcctccacta	ggtggttttg	caaaggccaa	actcttttct	ggcttacaca	gctaccagca	840
tgtataaata	ggccccctag	caaccattat	tccatcatcc	tcaacaatat	tgtctacacc	900
atctggaatc	ttgtttaaca	ctagtattgt	agaatcagca			940

<210> 48  
 <211> 1351  
 <212> DNA  
 <213> rice

<220>  
 <223> GLUTELIN-B1 promoter

<400> 48						
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agatatggat	tttctaagat	taattgattc	tctgtctaaa	gaaaaaaagt	attattgaat	120
taaatggaaa	aagaaaaagg	aaaaagggga	tggcttctgc	tttttgggct	gaaggcggcg	180
tgtggccagc	gtgctgcgtg	cggacagcga	gcgaacacac	gacggagcag	ctacgacgaa	240
cgggggaccg	agtggaccgg	acgaggatgt	ggcctaggac	gagtgcacaa	ggctagtggg	300
ctcgggtcccc	gcgcgggtatc	ccgagtggtc	cactgtctgc	aaacacgatt	cacatagagc	360
gggcagacgc	gggagccgtc	ctaggtgcac	cgggaagcaa	tccgtcgcct	gggtggattt	420
gagtgcacgc	ggccacgtgt	agcctcacag	ctctccgtgg	tcagatgtgt	aaaattatca	480
taatatgtgt	ttttcaataa	gttaaataat	atatataggc	aagttatatg	ggtcaataag	540
cagtaaaaag	gcttatgaca	tggtaaaatt	acttacacca	atatgcctta	ctgtctgata	600
tattttacat	gacaacaaag	ttacaagtac	gtcattttaa	aatacaagtt	acttatcaat	660
tgtagtgtat	caagtaaatg	acaacaaacc	tacaaatttg	ctattttgaa	ggaacactta	720
aaaaaatcaa	taggcaagtt	atatagtcaa	taaactgcaa	gaaggcttat	gacatggaaa	780
aattacatac	accaatatgc	tttattgtcc	ggtatatatt	acaagacaac	aaagttataa	840
gtatgtcatt	taaaaataca	agttacttat	caattgtcaa	gtaaatgaaa	acaaacctac	900
aaattttgta	ttttgaagga	acacctaaat	tatcaaatat	agcttgctac	gcaaaatgac	960
aacatgctta	caagttatta	tcattcttaa	gttagactca	tcttctcaag	cataagagct	1020
ttatggtgca	aaaacaaata	taatgacaag	gcaaagatac	atacatatta	agagtatgga	1080
cagacatttc	tttaacaaac	tccatttgta	ttactccaaa	agcaccagaa	gtttgtcatg	1140
gctgagtcac	gaaatgtata	gttcaatctt	gcaaagttgc	ctttcctttt	gtactgtgtt	1200
ttaacactac	aagccatata	ttgtctgtac	gtgcaacaaa	ctatatcacc	atgtatccca	1260
agatgctttt	ttattgctat	ataaactagc	ttggtctgtc	tttgaactca	catcaattag	1320
cttaagtttc	cataagcaag	tacaaatagc	t			1351

<210> 49  
 <211> 852  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism:CaMV 35S gene promoter

<400> 49						
ccccagatta	gcctttttcaa	tttcagaaa	aatgctaacc	cacagatggg	tagagaggct	60
tacgcagcag	gtctcatcaa	gacgatctac	ccgagcaata	atctccagga	aatcaaatac	120
cttcccaaga	aggttaaaga	tgacgtcaaa	agattcagga	ctaactgcat	caagaacaca	180
gagaaagata	tattttctaa	gatcagaagt	actattccag	tatggacgat	tcaaggcttg	240
cttcacaaac	caaggcaagt	aatagagatt	ggagtctcta	aaaaggtagt	tcccactgaa	300
tcaaaggcca	tggagtcaaa	gattcaaata	gaggacctaa	cagaactcgc	cgtaaagact	360
ggcgaacagt	tcatacagag	tctcttacga	ctcaatgaca	agaagaaaat	cttcgtcaac	420
atggtggagc	acgacacact	tgtctactcc	aaaaatatca	aagatacagt	ctcagaagac	480
caaaaggcca	ttgagacttt	tcaacaaagg	gtaatatccg	gaaacctcct	cggattccat	540
tggccagcta	tctgtcactt	tattgtgaag	atagtggaaa	aggaagggtg	ctcctacaaa	600
tgccatcatt	gcgataaagg	aaaggccatc	gttgaagatg	cctctgccga	cagtgggtccc	660
aaagatggac	ccccacccac	gaggagcatc	gtggaaaaag	aagacgttcc	aaccacgtct	720
tcaaagcaag	tggattgatg	tgatatctcc	actgacgtaa	gggatgacgc	acaatcccac	780
tatccttcgc	aagacccttc	ctctatataa	ggaagttcat	ttcattttga	gagaacacgg	840
gggactgtcg	ag					852

## 591508035Seqlist.txt

<210> 50  
 <211> 1047  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic antisense sequence

<400> 50  
 actagacggt cggcatctac tctattcctt tgccctcgga cgagtgtggt ggcgtcgggt 60  
 tccactatcg gcgagtactt ctacacagcc atcgggtccag acggccgcgc ttctgcgggc 120  
 gatttgtgta cgcccgacag tcccggctcc ggatcggacg attgctgcgc atcgaccctg 180  
 cgcccaagct gcatcatcga aattgccgtc aaccaagctc tgatagagtt ggtcaagacc 240  
 aatgctggagc atatacgccc ggagccgcgg cgatcctgca agctccggat gcctccgctc 300  
 gaagtagcgc gtctgtgctt ccatacaagc caaccacggc ctccagaaga agatgttggc 360  
 gacctcgtat tgggaatccc cgaacatcgc ctgcgtccag tcaatgaccg ctgttatgcg 420  
 gccattgtcc gtcaggacat tgttggagcc gaaatccgcg tgcacgaggt gccggacttc 480  
 ggggcagtcg tcggcccaaa gcatcagctc atcgagagcc tgcgcgacgg acgcactgac 540  
 ggtgtcgtcc atcacagttt gccagtgtata cacatgggga tcagcaatcg cgcataatgaa 600  
 atcacgccat gtagtgtatt gaccgattcc ttgctgtccg aatggggccga acccgctcgt 660  
 ctggctaaga tcggccgcag cgatcgcacg catgacctcc gcgaccggct gaagaacagc 720  
 gggcagttcg gtttcaggca ggtctttgcaa cgtgacaccc tgtgcacggc gggagatgca 780  
 ataggtcagg ctctcgtgta actccccaat gtcaagcact tccggaatcg ggagcgcggc 840  
 cgatgcaaag tgccgataaa cataacgacg tttgtagaaa ccatcggcgc agctattttac 900  
 ccgcaggaca tatccacgcc ctctacatc gaagctgaaa gcacgagatt cttcgccctc 960  
 cgagagctgc atcaggtcgg agacgtgtgc gaacttttcg atcagaaact tctcgacaga 1020  
 cgtcgcgggt agttcaggct ttttcatt 1047

<210> 51  
 <211> 67  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic antisense sequence

<400> 51  
 aatgaagatc attttcgtat ttgctctcct tgctattggt gcatgcaacg cttctgcacg 60  
 gtttgat 67

<210> 52  
 <211> 15  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic antisense sequence

<400> 52  
 atgaagatca ttttc 15

<210> 53  
 <211> 15  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic control sequence

<400> 53  
 ggatcccggg gtacc 15

<210> 54

## 591508035Seqlist.txt

<211> 1047  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism:hygromycin phosphotransferase gene

<400> 54  
 atgaaaaagc ctgaactcac cgcgacgtct gtcgagaagt ttctgatcga aaagtctgac 60  
 agcgtctccg acctgatgca gctctcggag ggcgaagaat ctctgtgcttt cagcttcgat 120  
 gtaggagggc gtggatatgt cctgcgggta aatagctgcg ccgatggttt ctacaaagat 180  
 cgttatgttt atcggcactt tgcacgcggc gcgctcccga ttccggaagt gcttgacatt 240  
 ggggagttca gcgagagcct gacctattgc atctcccgcg gtgcacaggg tgtcacgttg 300  
 caagacctgc ctgaaaccga actgcccgtt gttcttcagc cggtcgcgga ggatcatggat 360  
 gcgatcgctg cggccgatct tagccagacg agcgggttcg gccatttcgg accgcaagga 420  
 atcgggtcaat aactacatg gcgtgatttc atatgcgcga ttgctgatcc ccatgtgtat 480  
 cactggcaaa ctgtgatgga cgacaccgtc agtgcgtccg tcgcgaggc tctcgatgag 540  
 ctgatgcttt gggccgagga ctgccccgaa gtccggcacc tcgtgcacgc ggatttcggc 600  
 tccaacaatg tcctgacgga caatggccgc ataacagcgg tcattgactg gagcgaggcg 660  
 atgttcgggg attccaata cgaggtcgcc aacatcttct tctggaggcc gtggttggt 720  
 tgtatggagc agcagacgcg ctacttcgag cggaggcatc cggagcttgc aggatcgccg 780  
 cggctccggg cgtatatgct ccgcattggt cttgaccaac tctatcagag cttggttgac 840  
 ggcaatttcg atgatgcagc ttgggcgagc ggatcgatgcg acgcaatcgt ccgatccgga 900  
 gccgggactg tcgggcgtac acaaatcgcc cgcagaagcg cggccgtctg gaccgatggc 960  
 tgtgtagaag tactcgccga tagtggaac cgacgcccc gactcgtcc gagggcaaag 1020  
 gaatagagta gatgccgacc gtctagt 1047

<210> 55  
 <211> 265  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism:Nos terminator

<400> 55  
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 cggctcttgcg atgattatca tataatttct gttgaattac gtttaagcatg taataattaa 120  
 catgtaatgc atgacgttat ttatgagatg ggtttttatg attagagtcc cgcaattata 180  
 catttaatac gcgatagaaa acaaaatata gcgcgcaaac taggataaat tatcgcgcg 240  
 ggtgtcatct atgttactag atcgg 265

<210> 56  
 <211> 341  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Modified HPT synthetic sequence

<400> 56  
 Met Lys Lys Pro Glu Leu Thr Ala Thr Ser Val Glu Lys Phe Leu Ile  
 1 5 10 15  
 Glu Lys Phe Asp Ser Val Ser Asp Leu Met Gln Leu Ser Glu Gly Glu  
 20 25 30  
 Glu Ser Arg Ala Phe Ser Phe Asp Val Gly Gly Arg Gly Tyr Val Leu  
 35 40 45  
 Arg Val Asn Ser Cys Ala Asp Gly Phe Tyr Lys Asp Arg Tyr Val Tyr  
 50 55 60  
 Arg His Phe Ala Ser Ala Leu Pro Ile Pro Glu Val Leu Asp Ile  
 65 70 75 80  
 Gly Glu Phe Ser Glu Ser Leu Thr Tyr Cys Ile Ser Arg Arg Ala Gln

[illegible]

<210>	57
<211>	2158
<212>	DNA
<213>	Artificial Sequence

<220>  
<223> CAMV35S-Modified HPT-NOS synthetic sequence

<400>	57						
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cttcccaaga	aggttaaaga	tgcagtcaaa	agattcagga	ctaactgcat	caagaacaca		180
gagaaagata	tattttctcaa	gatcagaagt	actattccag	tatggacgat	tcaaggcttg		240
cttcacaaac	caaggcaagt	aatagcagatt	ggagttctcta	aaaaggtagt	tcccattgaa		300
tcaaaggcca	tggagtcaaa	gattcaataa	gaggacctaa	cagaactcgc	cgtaaagact		360
ggcgaacagt	tcatacagag	tctcttacga	ctcaatgaca	agaagaaaat	cttcgtcaac		420
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caaagggcaa	ttgagacttt	tcaacaaagg	gtaatatccg	gaaacctcct	cggattccat		540
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tgccatcatt	gcgataaaag	aaaggccatc	gttgaagatg	cctctgccga	cagtggtccc		660
aaagatggac	cccccccac	gagagcattc	gtggaaaaaa	aagacgtttc	aaccagctct		720
tcaaagcaag	tggattgatg	tgatattctc	actgacgtaa	gggattgacg	acaatcccac		780
tatccttcgc	aagacccttc	ctctatataa	ggaagttcat	ttcattttgga	gagaacacgg		840
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gaaaagttcg	acagcgtctc	cgacctgatg	cagctctcgg	agggcgaaag	atctcgtgct		960
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ttctacaaag	atcgttatgt	ttatcggcac	tttgcatctgg	ccgcgctccc	gattccggaa		1080
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ggaccgcaag	gaatcggtca	atacactaca	tgccgtgatt	tcatatgcgc	gattgctgat	1320
ccccatgtgt	atcactggca	aactgtgatg	gacgacaccg	tcagtgcg	cgtcgcgcag	1380
gctctcgatg	agctgatgct	ttgggcccag	gactgccccg	aagtccggca	cctcgtgcac	1440
gcggatttctg	gctccaacaa	tgctctgacg	gacaatggcc	gcataacagc	ggtcattgac	1500
tgagcgaggg	cgatgttccg	ggattcccaa	tacgaggtcg	ccaacatctt	cttctggagg	1560
ccgtgggttg	cttgtatgga	gcagcagacg	cgctacttctg	agcggaggca	tccggagctt	1620
gcaggatcgc	cgccggctccg	ggcgtatatg	ctccgcattg	gtcttgacca	actctatcag	1680
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tgaccgatg	gctgtgtaga	agtactcgcc	gatagtggaa	accgacgccc	cagcactcgt	1860
ccgagggcaa	aggaatagag	tagatgccga	ccgtctagt	aatttccccg	atcgttcaaa	1920
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ataatttctg	ttgaattacg	ttaagcatgt	aataattaac	atgtaatgca	tgacgttatt	2040
tatgagatgg	gtttttatga	ttagagtccc	gcaattatag	atttaatacg	cgatagaaaa	2100
caaaatatag	cgcgcaaaact	aggataaaatt	atcgcgcgcg	gtgtcatcta	tgttacta	2158

<210> 58

<211> 1757

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic promoter sequence

<400> 58

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aaatttaata	tatatatata	tatatatata	tatatatata	tatatatata	tatatatata	180
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ctgggctgct	tcaattataa	agccccattc	accacatttg	ctagatagtc	gaaaagcacc	300
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ccaaatcaat	ataattcact	accaaaatat	accatagcca	tcacaacttt	attaattttg	420
gtagcttaag	atggtatata	taataaccaa	ttaacaactg	attctaattt	tactacggcc	480
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gcatacagctt	tccacctctc	cgatatctcc	gcggcgccgt	ctggacccgc	cccctttccg	720
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cactcacgag	tccccccctc	cccacctata	aataccccac	cccctctctg	cctcttctct	900
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cacggtgcgt	ctctctat	tgtaggttca	ctgttggtgt	tgataggtac	actgatgtta	1620
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acttgcttgg	tattgttata	atttcatgtt	catagttgct	gaccatgctt	cggtaattgt	1740
gtgtgcagat	ctctaga					1757

<210> 59

<211> 926

<212> DNA

<213> Unknown

<220>



<223> Description of Unknown Organism:GUS gene partial fragment

<400> 59

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ggcaaaggat	tcgataacgt	gctgatgggtg	cacgaccacg	cattaatgga	ctggattggg	180
gccaaactcct	accgtacctc	gcattaccct	tacgctgaag	agatgctcga	ctgggcagat	240
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attggtttcg	aagcgggcaa	caagccgaaa	gaactgtaca	gcgaagaggc	agtcaacggg	360
gaaactcagc	aagcgacatt	acaggcgatt	aaagagctga	tagcgcgtga	caaaaaccac	420
ccaagcgtgg	tgatgtggag	tattgccaac	gaaccggata	cccgtccgca	agtgcacggg	480
aatattttcg	cactggcgga	agcaacgcgt	aaactcgacc	cgacgcgtcc	gatcacctgc	540
gtcaatgtaa	tgttctgcga	cgctcacacc	gataccatca	gcgatctctt	tgatgtgctg	600
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gtactggaaa	aagaacttct	ggcctggcag	gagaaactgc	atcagccgat	tatcatcacc	720
gaatacggcg	tggtacgttt	agccgggctg	cactcaatgt	acaccgacat	gtggagtga	780
gagtatcagt	gtgcatggct	ggatatgtat	caccgcgtct	ttgatcgcgt	cagcgccgtc	840
gtcggatgaac	aggtatggaa	tttcgccgat	tttgcgacct	cgcaaggcat	attgcgcgtt	900
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<210> 60

<211> 1198

<212> DNA

<213> Oryza sativa

<400> 60

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gttttggtga	cagacatgga	gatgttggtg	atgctatgaa	tagtcgatag	ttttaagttg	180
gttattttaat	ttggatatag	actgacaaat	gattatatct	ttctaattga	ttaaattcta	240
cttttggtatg	gttgatagga	ttattttacaa	gttatttgaa	gaacttgcag	catgtggggg	300
atatggttat	actacgtgac	atatattcat	gagtggagtt	cagagttttg	gcttgtctcc	360
aggcatacat	atacctaggc	acaagtccag	cgcaaaagca	tacaagggaag	atcataacaa	420
catgtttccc	cttctctgga	aaattttggt	ggcaacagat	gccttctcct	tctttcagct	480
tctgtctctt	tagtcagttt	ggaggaagca	gcaaatagtt	gatgatatga	gaatcctcta	540
catcggctag	gtgtaccaca	cgactttatt	attattatta	ttattattat	tattatttta	600
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atataattca	aagagaataa	atccacatag	ccgtaaagtt	ctacatgtgg	tgcatocca	840
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attgacacat	aaagtgaagt	atgagtcata	atattatttt	tcttgctacc	catcatgtat	960
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acagaataatc	caaataatat	gactcactta	gatcataata	gagcatcaag	taaaactaac	1080
actctaaagc	aaccgatggg	aaagcatcta	taaatagaca	agcacaatga	aaatcctcat	1140
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<210> 61

<211> 163

<212> DNA

<213> rice

<220>

<223> 10kDa prolamine terminator

<400> 61

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ttggattttct	gtcccatgtc	cctcttgaaa	gccatgtctgt	aca		163

<210> 62

<211> 984

<212> DNA

<213> Oryza sativa

<220>

<223> GLUTELIN-A3 promoter

<400> 62

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tgtataagaa	ttttagggtta	gtgtgcaatg	taagtgtagc	ttcttatagc	ttagtgcctt	180
actatcttca	caagcacatg	ctatagtatt	gttccaagat	gaaagaataa	ttcatccttg	240
ctaccaactt	gcatgatatt	atatttgtga	atatacctatc	tcttggctta	taatgaaatg	300
tgctgctggg	ttatacctga	ccatgggtatt	tgagagacct	ttgtatagct	gaaaccaacg	360
tatatgcgag	catggaacaa	gagaacaaaa	tgcaaggatt	tttttatact	ggttcatgcc	420
cctggatggg	ttaatatcgt	gatcatcaaa	aaagatatgc	ataaaaattaa	agtaataaat	480
ttgctcataa	gaaacaaaaa	ccaaaagcac	atatgtccta	aacaaactgc	attttggttg	540
tcattgtagca	atacaagaga	taatatatga	cgtgggttatg	acttattcac	tttttgtgac	600
tccaaaatgt	agtaggtcta	actgattggt	taaagtgatg	tgcttactgt	agaagtttca	660
tccaaaagc	aatcactaaa	gcaacacaca	acgtatagtc	caccttgac	gtaattcttt	720
gtggaagata	acaagaaggc	tactgaaaa	ataaaagcaa	agaaaaggat	atcaaacaga	780
ccattgtgta	tcccattgat	acttgtatgt	ctattttatct	atccaccttt	tgtgtacctt	840
acttctatct	agtgagtcac	ttcatatgtg	gacattaaca	aactctatct	taacatctag	900
tcgatcacta	ctttacttca	ctataaaaagg	accaacatat	atcaccattt	ctcacaaaag	960
cattgagttc	agtcccacaa	aaac				984

<210> 63

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic antisense sequence

<400> 63

atgaagatca	ttttcgtatt	tgctctcctt	30
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<210> 64

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic antisense sequence

<400> 64

atgaagatca	ttttcgtatt	tgctctcctt	gctattggtg	catgc	45
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<210> 65

<211> 30

<212> DNA

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<223> Synthetic antisense sequence

<400> 65

caaagttata	gacaatatca	actacaatcg	30
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<210> 66

<211> 15

<212> DNA

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<220>

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 <211> 16  
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 <400> 71  
 tgcagcagca gtgttg 16  
 <210> 72  
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<213> Artificial Sequence

<220>

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<400> 72

tgcagcagca gtgttgccaa cag

23

<210> 73

<211> 22

<212> PRT

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<220>

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<400> 73

Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn  
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 Ala Ser Ala Arg Phe Asp  
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<210> 74

<211> 5

<212> PRT

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<220>

<223> Synthetic antisense sequence

<400> 74

Met Lys Ile Ile Phe  
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<210> 75

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Synthetic antisense sequence

<400> 75

Met Lys Ile Ile Phe Val Phe Ala Leu Leu  
 1 5 10

<210> 76

<211> 14

<212> PRT

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<220>

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<400> 76

Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala  
 1 5 10

<210> 77

<211> 10

<212> PRT

<213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic antisense sequence

&lt;400&gt; 77

Gln Ser Tyr Arg Gln Tyr Gln Leu Gln Ser  
1 5 10

&lt;210&gt; 78

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic antisense sequence

&lt;400&gt; 78

Glu Phe Val Arg Gln  
1 5

&lt;210&gt; 79

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic antisense sequence

&lt;400&gt; 79

Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp  
1 5 10 15

&lt;210&gt; 80

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic antisense sequence

&lt;400&gt; 80

Gln Gln Ser His Tyr Gln Ala Ile Ser Ser Val Gln Ala Ile Val  
1 5 10 15

&lt;210&gt; 81

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic antisense sequence

&lt;400&gt; 81

Ala Gln Ala Gln Ala  
1 5

&lt;210&gt; 82

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic antisense sequence

&lt;400&gt; 82

Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln  
1 5 10

&lt;210&gt; 83

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic antisense sequence

&lt;400&gt; 83

Gln Gln Gln Cys Cys  
1 5

&lt;210&gt; 84

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic antisense sequence

&lt;400&gt; 84

Gln Gln Gln Cys Cys Gln Gln  
1 5

&lt;210&gt; 85

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic motif sequence

&lt;400&gt; 85

Glu Phe Val Arg Gln Gln Cys Ser Pro  
1 5

&lt;210&gt; 86

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic motif sequence

&lt;400&gt; 86

Cys Gln Val Met Gln Gln Gln Cys Cys Gln Gln  
1 5 10

&lt;210&gt; 87

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic motif sequence

&lt;400&gt; 87

Gln Gln Cys Cys Gln Gln  
1 5

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<210> 88  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<400> 88  
 Glu Phe Val Arg Gln Gln  
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<210> 89  
 <211> 144  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> RM4

<400> 89  
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 Leu Gln Ser Pro Val Leu Leu Gln Gln Val Leu Ser Pro Tyr Asn  
 35 40 45  
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln  
 50 55 60  
 Ser Ala Ala Phe Gln Leu Gln Gln Leu Ala Leu Val Ala Gln Gln Ser  
 65 70 75 80  
 His Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile Ala Gln Gln Leu Gln  
 85 90 95  
 Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg Asn Leu Ala Gln Ala  
 100 105 110  
 Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg Tyr Gly Ile Tyr Pro  
 115 120 125  
 Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr Leu Gly Gly Val Leu  
 130 135 140

<210> 90  
 <211> 156  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> RM5

<400> 90  
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 Ala Ser Ala Arg Phe Asp Ala Leu Ser Gln Ser Tyr Arg Gln Tyr Gln  
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 Leu Gln Ser His Leu Leu Leu Gln Gln Val Leu Ser Pro Cys Ser  
 35 40 45  
 Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp Gln  
 50 55 60  
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Cys  
 65 70 75 80  
 Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln Ala Ile  
 85 90 95  
 Ser Ser Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln Gln Val Gly

591508035Seqlist.txt

Val	Val	Tyr	100					105				110			
		115	Phe	Asp	Gln	Thr	Gln	Ala	Gln	Ala	Gln	Ala	Leu	Leu	Ala
Leu	Asn	Leu	Pro	Ser	Ile	Cys	Gly	Ile	Tyr	Pro	Asn	Tyr	Tyr	Ile	Ala
	130					135					140				
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145					150					155					

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<212>	PRT
<213>	Oryza sativa

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Arg	Ser	Ala	Arg	Phe	Asp	Pro	Leu	Ser	Gln	Ser	Tyr	Arg	Gln	Tyr	Gln	
			20					25					30			
Leu	Gln	Ser	His	Leu	Leu	Leu	Gln	Gln	Gln	Val	Leu	Ser	Pro	Cys	Ser	
		35					40					45				
Glu	Phe	Val	Arg	Gln	Gln	Tyr	Ser	Ile	Val	Ala	Thr	Pro	Phe	Trp	Gln	
	50					55					60					
Pro	Ala	Thr	Phe	Gln	Leu	Ile	Asn	Asn	Gln	Val	Met	Gln	Gln	Gln	Arg	
65				70						75					80	
Met	Cys	Cys	Gln	Gln	Leu	Arg	Leu	Val	Ala	Gln	Gln	Ser	His	Tyr	Gln	
				85					90					95		
Ala	Ile	Ser	Ile	Val	Gln	Ala	Ile	Val	Gln	Gln	Leu	Gln	Leu	Gln	Gln	
			100					105					110			
Phe	Ser	Gly	Val	Tyr	Phe	Asp	Gln	Thr	Gln	Ala	Gln	Ala	Gln	Thr	Leu	
		115					120					125				
Leu	Thr	Phe	Asn	Leu	Pro	Ser	Ile	Cys	Gly	Ile	Tyr	Pro	Asn	Tyr	Tyr	
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Ser	Ala	Pro	Arg	Ser	Ile	Ala	Thr	Val	Gly	Gly	Val	Trp	Tyr			
145				150						155						

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<211> 134
<212> PRT
<213> Oryza sativa
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<220>  
<223> RM10

<400>	92														
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			20					25					30		
Pro	Thr	Leu	Ala	Met	Gly	Thr	Met	Asp	Pro	Cys	Arg	Gln	Tyr	Met	Met
		35					40					45			
Gln	Thr	Leu	Gly	Met	Gly	Ser	Ser	Thr	Ala	Met	Phe	Met	Ser	Gln	Pro
	50					55					60				
Met	Ala	Leu	Leu	Gln	Gln	Gln	Cys	Cys	Met	Gln	Leu	Gln	Gly	Met	Met
65				70						75					80
Pro	Gln	Cys	His	Cys	Gly	Thr	Ser	Cys	Gln	Met	Met	Gln	Ser	Met	Gln
				85					90					95	
Gln	Val	Ile	Cys	Ala	Gly	Leu	Gly	Gln	Gln	Gln	Met	Met	Lys	Met	Ala
			100					105					110		
Met	Gln	Met	Pro	Tyr	Met	Cys	Asn	Met	Ala	Pro	Val	Asn	Phe	Gln	Leu
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Ser Ser Cys Gly Cys Cys  
130

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<212> PRT  
<213> Oryza sativa

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20 25 30  
Pro Phe Met Gln Pro Ile Met Asn Pro Cys Asn Glu Phe Val Arg Gln  
35 40 45  
Gln Cys Ser Pro Met Ser Leu Pro Trp Lys Gln Ser Arg Arg Leu Gln  
50 55 60  
Leu Ser Ser Cys Gln Val Met Arg Gln Gln Cys Cys Gln Gln Met Arg  
65 70 75 80  
Leu Met Ala Gln Gln Tyr His Cys Gln Ala Ile Cys Thr Met Val Gln  
85 90 95  
Ser Ile Met Gln Gln Val Gln Phe Asp Ala Gly Phe Val Gly Glu Pro  
100 105 110  
Gln Ala Gln Ala Gln Ala Gln Val Ala Leu Asn Leu Pro Ser Met Cys  
115 120 125  
Gly Val Tyr Pro Arg Tyr Cys Ser Thr Pro Cys Lys Val Ala Thr Gly  
130 135 140  
His Cys Gly Ser Trp  
145

<210> 94  
<211> 596  
<212> DNA  
<213> Oryza sativa

<220>  
<223> RM4

<400> 94  
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atcagctg cagtcgcctg tcctgctaca gcaacaggtg cttagcccat ataatgagtt 180  
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gagaaacaac caagtctggc aacagctcgc gctggtggcg caacaatctc actatcagga 300  
cattaacatt gttcaggcca tagcgcagca gctacaactc cagcagtttg gtgatctcta 360  
ctttgatcgg aatctggctc aagctcaagc tctggtggct tttaacgtgc catctagata 420  
tggtatctac cctaggtact atggtgcacc cagtaccatt accacccttg gcggtgtctt 480  
gtaatgagtt ttaacagtat agtggttcgg aagttaaaaa taagctcaga tatcatatat 540  
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<212> DNA  
<213> Oryza sativa

<220>  
<223> RM5

<400> 95  
caattcaaac attatagttg aagcatagta gtagaatcct acaaaaatga agatcatttt 60

## 591508035Seq1ist.txt

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cccatgcagt	gagttcgtaa	ggcaacagca	tagcatagt	gcaacccct	tctggcaacc	240
agctacgttt	caattgataa	acaaccaagt	catgcagcaa	cagtgttgcc	aacagctcag	300
gctggtagcg	caacaatctc	actaccaggc	cattagtagc	gttcaggcga	ttgtgcagca	360
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gaggagcatt	cccaccgttg	gtggtgtctg	gtactgaatt	gtaatagtat	aatggttcaa	540
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agtgggtgtc	actttgatca	gactcaagct	caagcccaaa	ctctgttgac	cttcaacttg	420
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ggtggtgtct	ggtactgaat	tgtaacaata	taatagtctg	tatgttaaaa	ataaagtcac	540
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cgtattttgct	ctatagctgg	tgccatatct	catgttgaaa	tttgcccttt	taatccaaaa	180
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aaagtgggat	attcatatat	tcttacagta	aattttattga	ttttcttttc	atttatttct	900
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## 591508035Seqlist.txt

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 1 5 10 15  
 Gln Ser His Tyr Gln Ala Ile Ser Ser Val Gln Ala Ile Val Gln Gln  
 20 25 30  
 Leu Gln Leu Gln Gln  
 35

&lt;210&gt; 99

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Oryza sativa

&lt;400&gt; 99

Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn  
 1 5 10 15  
 Ala Ser Ala Arg Phe Asp Ala Leu Ser Gln Ser Tyr Arg Gln Tyr Gln  
 20 25 30  
 Leu Gln

&lt;210&gt; 100

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Oryza sativa

&lt;400&gt; 100

Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp Gln  
 1 5 10 15  
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln  
 20 25

&lt;210&gt; 101

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Oryza sativa

&lt;400&gt; 101

Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala Leu Asn  
 1 5 10 15  
 Leu Gln Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ile Ala Pro  
 20 25 30

&lt;210&gt; 102

&lt;211&gt; 111

&lt;212&gt; DNA

&lt;213&gt; Oryza sativa

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(111)

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (6)..(6)

&lt;223&gt; n is a, c, g, or t

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (31)..(39)

&lt;223&gt; n is a, c, g, or t

&lt;220&gt;

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<223> n is a, c, q, or t
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<220>
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<220>
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<220>
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1 5 10 15

car nnn cay tay car gcn atg nnn nnn gtn car gcn atg gtn car car 96  
Gln Xaa His Tyr Gln Ala Met Xaa Xaa Val Gln Ala Met Val Gln Gln  
20 25 30

nnn car nnn car car 111  
Xaa Gln Xaa Gln Gln  
35

<210> 103

<211> 102  
<212> DNA  
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<220>  
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<221> misc\_feature  
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<222> (97)..(99)  
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[illegible]

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<221> CDS  
<222> (1)..(78)

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<222> (22)..(24)
<223> n is a, c, g, or t
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<220>
<221> misc_feature
<222> (30)..(30)
<223> n is a, c, g, or t
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<220>
<221> misc_feature
<222> (33)..(33)
<223> n is a, c, g, or t
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<220>
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<223> n is a, c, g, or t
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<220>
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<222> (39)..(39)
<223> n is a, c, g, or t
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<220>
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<223> n is a, c, g, or t
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<220>
<221> misc_feature
<222> (54)..(54)
<223> n is a, c, g, or t
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## 591508035Seqlist.txt

<222> (57)..(57)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (64)..(66)  
 <223> n is a, c, g, or t

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 Glu Phe Val Xaa Gln Gln His Xaa Met Val Ala Thr Pro Phe Trp Gln  
 1 5 10 15

ccn gcn acn tty car nnn atg aay aay car 78  
 Pro Ala Thr Phe Gln Xaa Met Asn Asn Gln  
 20 25

<210> 105  
 <211> 93  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <221> CDS  
 <222> (1)..(93)

<400> 105  
 tac ttt gat cag act caa gct caa gct caa gct ttg ctg gcc tta aac 48  
 Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala Leu Asn  
 1 5 10 15

ttg caa tcc ata tgt ggt atc tat cct aac tac tac att gct ccg 93  
 Leu Gln Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ile Ala Pro  
 20 25 30

<210> 106  
 <211> 1426  
 <212> DNA  
 <213> Oryza sativa

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 cactagtcaa gttgcacttg gcctagagtc tcaattgtat tataaatgat ataataattc 180  
 taaaattaaa attagcaaat aacaagttca attaggtttg aagccgtaat tctattttta 240  
 taatttaatc attcttaaat ttagaattac taaaaaataa ttattaatac agcgtttgtac 300  
 ttgctgtaga gactcatata gtttttacga cgatttaata atttcaaaaa taaatacagg 360  
 aaattgctaa gtttgtaatc taaaatataa tattgtcata atataataat tctaaaattc 420  
 aaattaataa ataccaagtt gatgttttat ttaaaatata tagtatgtgc cgcacagctt 480  
 gatgcttagt ctagatcttt taaccgtgct acgctggggt aattagcgat ggtgcaggtc 540  
 acgtacccaa atttcttcac tgttggatca actagagtag ttaaacgagg gcatgtgatg 600  
 aaggctagct atttgaaatt ttccaattat ccctgcataa gtcaggctac aatagcacct 660  
 ggactacatg cagggattac aaaatagggt gtaaccacat ttaccgcgtt aaccctatca 720  
 aattcaaata aattttaaaa gtaatttgat ttttttaata aattttgtat ggtttctcaa 780  
 gctttatttt gggtaccgtg cttactgccg gaggcaatgg gaaaccctca ctagaagttg 840  
 cacctgttct tgtctgtgca ccatacatg ttgaatcatg tgcgttgtgt cctttcggaa 900  
 gaaccgattt actcaatgac tcatcaattc cactttacgt atcaaaagggt ttgttatggg 960  
 ggcaatgctt ttgtgaaatt aaatttttat tttgcgtcac gttgtatcta gttaaacact 1020  
 acctacctac cattacaaaa cctcattcca caaacgatg catctagata aaaaatatga 1080  
 catgtaaagt gagtaatgac tcatgtttat tatcaaaaat cgataacaat caaatgatat 1140  
 aggtagtaaa gtacctttga aatggcatgt ccaagtatgt gtagctccac ctagcacaat 1200  
 atcccaagtg atcatcataa aaggcataca aatacaagca gccgatgatg cacacaagaa 1260  
 acaacacaaa ttgcacaaaa ccaaaagcaa ccgatgcctt gagcatagag atcatgctat 1320

## 591508035Seq1ist.txt

tcccactata aatacaaatg caccatatca agatgctcct cacccttact gaaaaatcac 1380  
 aaacatcaaa acgttataag agttctctag catccatcac atagcc 1426

<210> 107  
 <211> 1008  
 <212> DNA  
 <213> Oryza sativa

<400> 107  
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 ttttaattca ttcttttgtt gaaactgaca tgtgggtccc atgagaatta ttatttttcg 180  
 gatcgaattg ccacgtaagc gctacgtcaa tgctacgtca gatgaagacc gagtcaaatt 240  
 agccacgtaa gcgccacgtc agccaaaacc accatccaaa ccgccgaggg acctcatctg 300  
 cactggtttt gatagttgag ggaccggttg tatctggttt ttcgattgaa ggacgaaaat 360  
 caaattttgtt gacaagttaa gggaccttaa atgaacttat tccatttcaa aatattctgt 420  
 gagccatata tccgtgggct tccaatcctc ctcaaattaa agggcctttt taaaatagat 480  
 aattgccttc tttcagtcac ccataaaagt acaaaactac taccaacaag caacatgcgc 540  
 agttacacac attttctgca catttccacc acgtcacaaa gagctaagag ttatccctag 600  
 gacaatctca ttagtgtaga tacatccatt aatcttttat cagaggcaaa cgtaaagccg 660  
 ctctttatga caaaaatagg tgacacaaaa gtgttatctg ccacatacat aacttcagaa 720  
 attacccaac accaagagaa aaataaaaaa aatctttttt gcaagctcca aatcttggaa 780  
 acctttttca ctctttgcag cattgtactc ttgctctttt tccaaccgat ccattgtcacc 840  
 ctcaagcttc tacttgatct acacgaagct caccgtgcac acaaccatgg ccacaaaaac 900  
 cctataaaac cccatccgat cgccatcatc tcatcatcag ttcatcacca acaaacaaaa 960  
 gaggaaaaaa aacatatata cttctagtga ttgtctgatt gatcatca 1008

<210> 108  
 <211> 72  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <221> CDS  
 <222> (1)..(72)

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 Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala  
 1 5 10 15

ctt tct gca agt gcc act act gca 72  
 Leu Ser Ala Ser Ala Thr Thr Ala  
 20

<210> 109  
 <211> 24  
 <212> PRT  
 <213> Oryza sativa

<400> 109  
 Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala  
 1 5 10 15  
 Leu Ser Ala Ser Ala Thr Thr Ala  
 20

<210> 110  
 <211> 66  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <221> CDS



## 591508035Seqlist.txt

&lt;222&gt; (1)..(66)

&lt;400&gt; 110

atg	aag	atc	att	ttc	gta	ttt	gct	ctc	ctt	gct	att	gtt	gca	tgc	aat	48
Met	Lys	Ile	Ile	Phe	Val	Phe	Ala	Leu	Leu	Ala	Ile	Val	Ala	Cys	Asn	
1				5					10					15		

gct	tct	gca	cgg	ttt	gat	66
Ala	Ser	Ala	Arg	Phe	Asp	
			20			

&lt;210&gt; 111

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Oryza sativa

&lt;400&gt; 111

Met	Lys	Ile	Ile	Phe	Val	Phe	Ala	Leu	Leu	Ala	Ile	Val	Ala	Cys	Asn
1				5					10					15	
Ala	Ser	Ala	Arg	Phe	Asp										
			20												

&lt;210&gt; 112

&lt;211&gt; 57

&lt;212&gt; DNA

&lt;213&gt; Oryza sativa

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(57)

&lt;400&gt; 112

atg	aag	atc	ttt	gtc	atc	ctc	tct	ctc	ctc	gcc	ctc	gca	gcg	agc	agc	48
Met	Lys	Ile	Phe	Val	Ile	Leu	Ser	Leu	Leu	Ala	Leu	Ala	Ala	Ser	Ser	
1				5					10					15		

gcc	tcg	gca	57
Ala	Ser	Ala	

&lt;210&gt; 113

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Oryza sativa

&lt;400&gt; 113

Met	Lys	Ile	Phe	Val	Ile	Leu	Ser	Leu	Leu	Ala	Leu	Ala	Ala	Ser	Ser
1				5					10					15	
Ala	Ser	Ala													

&lt;210&gt; 114

&lt;211&gt; 72

&lt;212&gt; DNA

&lt;213&gt; Oryza sativa

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(72)

&lt;400&gt; 114

atg	gcg	agt	tcc	gtt	ttc	tct	cgg	ttt	tct	ata	tac	ttt	tgt	gtt	ctt	48
Met	Ala	Ser	Ser	Val	Phe	Ser	Arg	Phe	Ser	Ile	Tyr	Phe	Cys	Val	Leu	
1				5					10					15		

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 Leu Leu Cys His Gly Ser Met Ala  
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 <212> PRT  
 <213> Oryza sativa

<400> 115  
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 1 5 10 15  
 Leu Leu Cys His Gly Ser Met Ala  
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<210> 116  
 <211> 66  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <221> CDS  
 <222> (1)..(66)

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 1 5 10 15  
 48

gtg gcc atc tcc ggc gcg  
 Val Ala Ile Ser Gly Ala  
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 66

<210> 117  
 <211> 22  
 <212> PRT  
 <213> Oryza sativa

<400> 117  
 Met Ala Ser Lys Val Val Phe Phe Ala Ala Ala Leu Met Ala Ala Met  
 1 5 10 15  
 Val Ala Ile Ser Gly Ala  
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<210> 118  
 <211> 8  
 <212> PRT  
 <213> Oryza sativa

<400> 118  
 Ser Arg Ala Met Val Ser Leu Gly  
 1 5

<210> 119  
 <211> 102  
 <212> DNA  
 <213> recombinant construct

<400> 119  
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 gccactactg catctagagc aatggtgagc aagggcgagg ag  
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 102